

February 9 - February 15, 2001

The Terra spacecraft is currently operating in its nominal mode. All five instruments are operating in Science Mode.

The MOPITT instrument Capillary Pumped Heat Transfer System (CPHTS) performed nominally during power level changes during MOPITT-to-SAFE operations in support of decontamination and calibration activities from February 7-12. On February 12, MOPITT was placed into safe mode. The required commanding was completed, however, a new MOPITT microprocessor load could not be loaded due to an incorrect starting address, which resulted in the load being rejected by onboard MOPITT instrument software. The instrument was returned to operations with the original load. Analysis is underway to understand the problem with the new instrument load.

<P>The Network Control Center (NCC) was required to bump Terra from three consecutive scheduled TDRS-Spare contacts due to Space Shuttle and International Space Station operational requirements. This resulted in a 5-hour gap on February 13 (DOY 044 from 03:20-08:20z) without TDRSS support. The Terra Flight Operations Team was able to schedule a TDRS-West event at on February 13 (DOY 044 at 06:37z) for a science playback and to re-enable the MODIS and MISR data buffers.

<P>A Master Oscillator Frequency Adjust was successfully performed on February 15.

One High Gain Antenna Motor Drive Assembly upset occurred during this reporting period, with no resultant data loss.

The ASTER shortwave infrared (SWIR) temperature anomaly investigation is still ongoing.

<P>SCIENCE DATA LOSS

4,126,650 CADUs of MODIS and 2,066,290 CADUs of MISR were lost on February 13 (DOY 044 from 05:45 - 06:49z) due to three consecutive TDRSS contacts taken from Terra for STS/ISS support as described above. Ground station contacts of the necessary duration were not available to off-load the data on such short notice.